From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUL KROON GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
	(PCT Rule 44.1)				
8 CONTROL TO SA ES SA ES SA ES	Date of mailing (day/month/year) 19 MAY 2011				
Applicant's or agent's file reference	FOR BURTHER ACTION See paragraphs 1 and 4 below				
ART063PCT	<u>U</u>				
International application No.  PCT/US2011/027451 GROSSMAN, TUCKE	International filing date (day/month/year) 07 March 2011				
PERREAULT & PELEGER Applicant ARTHROSURFACE INCORPORATED	PLC				
Applicant ARTHROSORFACE INCORFORATED					
The applicant is hereby notified that the international s     Authority have been established and are transmitted he	earch report and the written opinion of the International Searching rewith.				
Filing of amendments and statement under Article 1 The applicant is entitled, if he so wishes, to amend the	9: claims of the international application (see Rule 46):				
When? The time limit for filing such amendme international search report.	nts is normally two months from the date of transmittal of the				
Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile N					
· · · · · · · · · · · · · · · · · · ·	's Guide, International Phase, paragraphs 9.004 – 9.011.				
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion o	search report will be established and that the declaration under f the International Searching Authority are transmitted herewith.				
- Distriction -	dditional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon be request to forward the texts of both the protest a	has been transmitted to the International Bureau together with any and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders	the written emission of the International Coursbing Authority to the				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.					
Shortly after the expiration of <b>18 months</b> from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the <i>PCT Applicant's Guide</i> , National Chapters.					
Name and mailing address of the ISA/  Authorized officer					
Mail Stop PCT, Attn: ISA/US	Blaine R. Copenheaver				
Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300				
Facsimile No. 571-273-3201	Telephone No. PCT OSP: 571-272-7774				

From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUL KROON GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION					
	(PCT Rule 44.1)  Date of mailing (day/month/year) 1 0 M/V 2011					
	(day/month/year) 19 MAY 2011					
Applicant's or agent's file reference ART063PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No.	International filing date					
PCT/US2011/027451	(day/month/year) 07 March 2011					
Applicant ARTHROSURFACE INCORPORATED						
<ol> <li>The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.</li> <li>Filing of amendments and statement under Article 19:         <ul> <li>The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):</li> <li>When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.</li> </ul> </li> <li>Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes         <ul> <li>1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70</li> </ul> </li> </ol>						
The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion of	's Guide, International Phase, paragraphs 9.004 – 9.011.  search report will be established and that the declaration under f the International Searching Authority are transmitted herewith.  dditional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon h	as been transmitted to the International Bureau together with any and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the	no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders  The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.						
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
months.	nonths (or later) will apply even if no demand is filed within 19					
For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the PCT Applicant's Guide, National Chapters.						
Name and mailing address of the ISA/	Authorized officer					
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Blaine R. Copenheaver					
P.O. Box 1450, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300					

Telephone No. PCT OSP: 571-272-7774

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ART063PCT	FOR FURTHER ACTION	as well a	see Form PCT/ISA/220 as, where applicable, item 5 below.		
International application No.	International filing date (day	te (day/month/year) (Earliest) Priority Date (day/month/yea			
PCT/US2011/027451	07 March 2011 05 March 2010				
ARTHROSURFACE INCORPORATED					
according to Article 18. A copy is bein	g transmitted to the Internation	al Bureau.	authority and is transmitted to the applicant		
This international search report consists  It is also accompanied by a	s of a total of sheets		report.		
1. Basis of the report					
a. With regard to the language, the			asis of:		
	dication in the language in whiternational application into	ch it was filed.	which is the language of		
a translation furnish	ed for the purposes of internati	onal search (Ru			
	report has been established tal o this Authority under Rule 91		nt the rectification of an obvious mistake )).		
c. With regard to any nucleo	tide and/or amino acid seque	nce disclosed in	the international application, see Box No. I.		
2. Certain claims were foun	d unsearchable (see Box No.	II).			
3. Unity of invention is lack	ing (see Box No. III).				
4. With regard to the title,					
the text is approved as sub		follows:			
the text has been establish	the text has been established by this Authority to read as follows:				
5 7777					
5. With regard to the abstract,  the text is approved as submitted by the applicant.					
[*************************************		this Authority as	s it appears in Box No. IV. The applicant		
may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. With regard to the drawings,					
a. the figure of the <b>drawings</b> to be published with the abstract is Figure No3					
as suggested by the		Called Access			
<u> </u>	authority, because the applicant		•		
as selected by this Authority, because this figure better characterizes the invention.  b. none of the figures is to be published with the abstract.					
	1				

Form PCT/ISA/210 (first sheet) (July 2009)

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US2011/027451

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 17/58 (2011.01)						
	USPC - 606/88 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELI	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61B 17/56, 17/58, 17/60; A61F 5/00 (2011.01) USPC - 606/79, 80, 82, 83, 84, 85, 86, 87, 88						
Documentati	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic da PatBase, Go	nta base consulted during the international search (name of ogle Scholar	data base and, where practicable, search ter	ms used)			
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
Α	US 6,575,980 B1 (ROBIE et al) 10 June 2003 (10.06.20	003) entire document	1-19			
A, P	US 7,708,741 B1 (BONUTTI) 04 May 2010 (04.05.2010	)) entire document	1-19			
Α	US 2002/0173797 A1 (VAN ZILE et al) 21 November 20	1-19				
Α	US 2002/0156480 A1 (OVERES et al) 24 October 2002	1-19				
Furthe	er documents are listed in the continuation of Box C.					
"A" docume to be or	categories of cited documents: ent defining the general state of the art which is not considered f particular relevance	"T" later document published after the interr date and not in conflict with the applic the principle or theory underlying the i	ation but cited to understand nvention			
filing d	application or patent but published on or after the international late ent which may throw doubts on priority claim(s) or which is a stablish the publication date of another citation or other	<ul> <li>"X" document of particular relevance; the considered novel or cannot be considered to the consideration of the consideration of the consideration of particular relevance; the consideration of particular relevance; the consideration of the considera</li></ul>	ered to involve an inventive			
"O" docume means	reason (as specified) ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later than	considered to involve an inventive s combined with one or more other such of being obvious to a person skilled in the	tep when the document is locuments, such combination art			
"P" docume the price	amily					
Date of the 18 April 201	actual completion of the international search	Date of mailing of the international search report  19 MAY 2011				
Mail Stop PC	nailing address of the ISA/US CT, Attn: ISA/US, Commissioner for Patents 50, Alexandria, Virginia 22313-1450	Authorized officer: Blaine R. Copenhea	aver			
Facsimile N	lo. 571-273-3201	PCT OSP: 571-272-7774				

Form PCT/ISA/210 (second sheet) (July 2009)

From the INTERNATIONAL SEARCHING AUTHORITY

TO: PALIL KROON

# **PCT**

GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43 <i>bis</i> .1)					
					Date of mailing (day/month/year)	19 MAY 2011	
Applicant's or agent's file reference ART063PCT					FOR FURTHER ACTION See paragraph 2 below		
Inte	rnation	nal application I	Vo.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT	7/US2	2011/027451		07 March 2011		05 March 2010	
International Patent Classification (IPC) or both national classification and IPC IPC(8) - A61B 17/58 (2011.01) USPC - 606/88 Applicant ARTHROSURFACE INCORPORATED							
***************************************							
1.	This o	opinion contains	s indications rela	ating to the following iter	ms:		
	$\boxtimes$	Box No. I	Basis of the op	inion			
		Box No. II	Priority				
	$\overline{\Box}$	Box No. III	Non-establishm	nent of oninion with rega	rd to novelty, inventive	e step and industrial applicability	
		Box No. IV	Lack of unity o		,,		
			-		-N/:>		
		Box No. V		ment under Rule 43 <i>018</i> .1( xplanations supporting su		elty, inventive step or industrial applicability;	
		Box No. VI	Certain docume	ents cited			
		Box No. VII	Certain defects	in the international appl	ication		
į į		Box No. VIII Certain observations on the international application					
2. FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Nan	ne and	mailing address	s of the ISA/US	Date of completion of	this opinion	Authorized officer:	
Mail	Stop P	CT, Attn: ISA/US ner for Patents		18 April 2011		Blaine R. Copenheaver	
Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450			10 April 2011		PCT Helpdesk: 571-272-4300		

Facsimile No. 571-273-3201

Form PCT/ISA/237 (cover sheet) (July 2009)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2011/027451

No. I	Basis of this opinion
With r	the international application in the language in which it was filed.  a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
	This opinion has been established taking into account the <b>rectification of an obvious mistake</b> authorized by or notified to this Authority under Rule 91 (Rule 43 <i>bis</i> .1(a))
establi	egard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been shed on the basis of a sequence listing filed or furnished: eans) on paper in electronic form
b. (tir	in the international application as filed together with the international application in electronic form subsequently to this Authority for the purposes of search
	In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
Additi	onal comments:
	With restablica. (me

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2011/027451

Box No. V Reasoned statement uncitations and explanations			ois.1(a)(i) with regard to novelty, inven- ng such statement	tive step or industrial applicability;
1. Statemer	nt			
Nove	lty (N)	Claims	1-19	YES
		Claims	None	NO
Inven	tive step (IS)	Claims	1-19	YES
		Claims	None	NO
Indus	trial applicability (IA)	Claims	1-19	YES
		Claims	None	NO

#### 2. Citations and explanations:

Claims 1-19 meet the criteria set out in PCT Article 33(2)-(3) because the prior art does not teach or fairly suggest certain subject matter in the claims, as follows:

Regarding Claim 1, the prior art of record, individually or in combination, does not teach or fairly suggest an implant resection system for preparing an implant site to replace a defect in an articular surface of a first bone, said implant resection system comprising a guide configured to be coupled generally perpendicular to said first bone proximate to said defect, said guide comprising a body portion defining a plurality of excision passageways, said excision passageways each defining a generally cylindrical core pathway configured to extend generally perpendicular to said first bone which partially overlaps with an adjacent generally cylindrical core pathway, wherein a projection associated with each of said plurality of said generally cylindrical core pathways defines a truncated cylindrical excision site extending through a portion of said articular surface, and wherein each truncated cylindrical excision site partially overlaps with at least one adjacent truncated cylindrical excision site.

Regarding Claim 19, the prior art of record, individually or in combination, does not teach or fairly suggest a method for preparing an implant site to replace a defect in an articular surface, said method comprising securing a guide to bone proximate said defect, said guide comprising a body portion defining a plurality of excision passageways, each excision passageway defining a generally cylindrical core pathway which partially overlap with an adjacent generally cylindrical core pathway; and advancing at least one drill through said plurality of excision passageways along said generally cylindrical core pathways to form a plurality of partially overlapping truncated cylindrical excision sites extending through said articular surface.

Claims 2-18 depend from base Claim 1 and therefore have novelty for at least the same reasons as do base Claim 1.

The following prior art is made of record to support and further define the reasons for allowance of base Claims 1 and 19:

- (i) Robie teaches an implant resection device (Title; Abstract) for preparing an implant site to replace a defect in an articular surface of a first bone (Col. 2, Lns 4-6, instrument for use in shaping the distal surface of a femur preparatory to implantation of a knee prosthesis), but Robie does not teach, either alone or in combination with the prior art of record, said implant resection system comprising a guide configured to be coupled generally perpendicular to said first bone proximate to said defect, said guide comprising a body portion defining a plurality of excision passageways, said excision passageways each defining a generally cylindrical core pathway configured to extend generally perpendicular to said first bone which partially overlaps with an adjacent generally cylindrical core pathway, wherein a projection associated with each of said plurality of said generally cylindrical core pathways defines a truncated cylindrical excision site extending through a portion of said articular surface, and wherein each truncated cylindrical excision site partially overlaps with at least one adjacent truncated cylindrical excision site.
- (ii) Overes teaches a device in the art that is of a similar construction based on the design claims, but Overes does not teach, either alone or in combination with the prior art of record, said implant resection system comprising a guide configured to be coupled generally perpendicular to said first bone proximate to said defect, said guide comprising a body portion defining a plurality of excision passageways, said excision passageways each defining a generally cylindrical core pathway configured to extend generally perpendicular to said first bone which partially overlaps with an adjacent generally cylindrical core pathway, wherein a projection associated with each of said plurality of said generally cylindrical core pathways defines a truncated cylindrical excision site extending through a portion of said articular surface, and wherein each truncated cylindrical excision site partially overlaps with at least one adjacent truncated cylindrical excision site.

Claims 1-19 meet the criteria set out in PCT Article 33(4) and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Date of Search: 18 April 2011

# **Search History:**

# Complete Classification Search

The Patent Analyst performed a <u>complete</u> classification search within the following US, IPC, ECLA, or F-Term classification areas:

ECLA Class/Subclass(es): A61B 17/56, 17/58; A61F 5/00 (2011.01)

U.S. Class/Subclass(es): 606/82, 83, 84, 85

See Global Search Results.

#### Limited Classification Search

The Patent Analyst performed a <u>limited</u> classification search within the following US, IPC, ECLA, or F-Term classification areas:

ECLA Class/Subclass(es): A61B 17/60 (2011.01)

U.S. Class/Subclass(es): 606/79, 80, 86, 87, 88

See Global Search Results.

#### Global Patent Literature Text Search

The Patent Analyst performed the following global text search, which was not limited by classification but may or may not have been limited by other criteria:

#### **PATBASE**

- 1) (FT=((implant or prosthetic) and (replace\* or remov\*) and (bone) )) (35766)
- 2) 1 and (core) and (surface) (1082)
- 3) 2 and (spoon or concave) (112)
- 4) (INV=(steven ek)) (12)
- 5) (PA=(kroon paul)) (2)
- 6) (FT=((bone or osteo\*) and (resurface or replace) and (articulate or articular))) (3737)
- 7) 6 and (spoon or concave) (433)
- 8) (bone or osteo) and (resurface or grind\*) (1436)
- 9) 8 and (jig) and (concave) (0)
- 10) 8 and (jig) (2)
- 11) 8 and (femur or femoral) (42)

Date of Search: 18 April 2011

#### 12) (PN=(US7708741)) (1)

13) PN=(EP0520737 OR EP1245204 OR EP1317911 OR FR2682287 OR US2002127264 OR US2002138150 OR US2002198528 OR US2002557755 OR US2003093079 OR US2003100906 OR US2003100907 OR US2003130665 OR US2003153923 OR US2003158606 OR US2003163137 OR US2003171757 OR US2003181984 OR US2003212403 OR US2003220697 OR US2003225458 OR US2003236523 OR US2004039395 OR US2004143338 OR US2004204760 OR US2004260301 OR US2005043807 OR US2007173946 OR US2008147075 OR US2589720 OR US3229006 OR US3624747 OR US3807393 OR US3811449 OR US3852830 OR US3903549 OR US3911923 OR US3920022 OR US3967625 OR US3989049 OR US3991426 OR US3994287 OR US4000525 OR US4053953 OR US4085466 OR US4085743 OR US4103680 OR US4203444 OR US4209012 OR US4224696 OR US4298992 OR US4299224 OR US4311145 OR US4344193 OR US4373709 OR US4374523 OR US4385404 OR US4457302 OR US4509518 OR US4545375 OR US4565192 OR US4574794 OR US4619391 OR US4624254 OR US4641648 OR US4646738 OR US4662372 OR US4682598 OR US4685460 OR US4719908 OR US4721104 OR US4739751 OR US4759350 OR US4817602 OR US4911721 OR US4936852 OR US4950298 OR US4952213 OR US4961954 OR US4964865 OR US4979949 OR US4983179 OR US4985038 OR US5007912 OR US5021056 OR US5032132 OR US5035699 OR US5037423 OR US5053039 OR US5060678 OR US5098436 OR US5098437 OR US5099859 OR US5100409 OR US5100689 OR US5108441 OR US5111987 OR US5123906 OR US5152744 OR US5152778 OR US5154717 OR US5163949 OR US5170800 OR US5171243 OR US5171244 OR US5171276 OR US5174300 OR US5176684 OR US5176702 OR US5178622 OR US5183053 OR US5183464 OR US5186178 OR US5197488 OR US5197968 OR US5197971 OR US5197987 OR US5207692 OR US5217463 OR US5226915 OR US5228459 OR US5234433 OR US5258004 OR US5258032 OR US5263498 OR US5263987 OR US5269785 OR US5273524 OR US5275166 OR US5282803 OR US5282866 OR US5285773 OR US5293878 OR US5295994 OR US5304181 OR US5306311 OR US5308349 OR US5312411 OR US5314482 OR US5320611 OR US5322505 OR US5342368 OR US5344423 OR US5344458 OR US5348541 OR US5358530 OR US5358643 OR US5360016 OR US5364402 OR US5368599 OR US5379133 OR US5395376 OR US5395401 OR US5403319 OR US5405395 OR US5415663 OR US5417695 OR US5425355 OR US5425745 OR US5425775 OR US5445639 OR US5454365 OR US5454815 OR US5454816 OR US5456268 OR US5456720 OR US5462549 OR US5470354 OR US5472415 OR US5484095 OR US5497933 OR US5514139 OR US5514143 OR US5514153 OR US5520692 OR US5520694 OR US5520695 OR US5522897 OR US5540695 OR US5540696 OR US5549683 OR US5554169 OR US5569163 OR US5569259 OR US5570700 OR US5578039 OR US5593448 OR US5597379 OR US5601565 OR US5609603 OR US5609644 OR US5624463 OR US5632745 OR US5643272 OR US5649946 OR US5658292 OR US5662710 OR US5667069 OR US5667512 OR US5667520 OR US5669914 OR US5681316 OR US5682886 OR US5683397 OR US5702447 OR US5702475 OR US5707350 OR US5712543 OR US5716360 OR US5718708 OR US5720752 OR US5722978 OR US5723331 OR US5733292 OR US5735904 OR US5741264 OR US5743915 OR US5749876 OR US5755731 OR US5755791 OR US5755803 OR US5763416 OR US5769855 OR US5769899 OR US5772594 OR US5776200 OR US5788700 OR US5792139 OR US5810827 OR US5817109 OR US5842477 OR US5846931 OR US5853415 OR US5860980 OR US5860981 OR US5866415 OR US5871018 OR US5871493 OR US5871541 OR US5871543 OR US5879354 OR US5880976 OR US5888219 OR US5897559 OR US5899914 OR US5908424 OR US5911723 OR US5913874 OR US5916219 OR US5916220 OR US5916269 OR US5921990 OR US5944722 OR US5947973 OR US5957926 OR US5961499 OR US5961523 OR US5971989 OR US5980526 OR US5995738 OR US5997566 OR US6001106 OR US6002859 OR US6012456 OR US6013103 OR US6015419 OR US6019767 OR US6022350 OR US6024746 OR US6027504 OR US6034296 OR US6056754 OR US6059788 OR US6059817 OR US6059831 OR US6063095 OR US6068633 OR US6077269 OR US6077270 OR US6077287 OR US6086593 OR US6090122 OR US6099531 OR

Date of Search: 18 April 2011

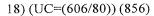
US6099532 OR US6102850 OR US6102916 OR US6118845 OR US6132468 OR US6146386 OR US6159246 OR US6165223 OR US6171340 OR US6174314 OR US6174321 OR US6176880 OR US6185315 OR US6187010 OR US6187023 OR US6195168 OR US6197064 OR US6198794 OR US6205411 OR US6206927 OR US6211976 OR US6214011 OR US6214051 OR US6228090 OR US6228121 OR US6241735 OR US6258095 OR US6258127 OR US6264701 OR US6277136 OR US6280476 OR US6290703 OR US6296646 OR US6299645 OR US6306169 OR US6306172 OR US6325806 OR US6328572 OR US6338730 OR US6338737 OR US6342075 OR US6352558 OR US6358266 OR US6379387 OR US6391040 OR US6398815 OR US6406495 OR US6409722 OR US6413279 OR US6423096 OR US6431743 OR US6478799 OR US6488687 OR US6491726 OR US6494914 OR US6500181 OR US6514259 OR US6540786 OR US6551324 OR US6554838 OR US6558391 OR US6558421 OR US6575980 OR US6589248 OR US6589281 OR US6589283 OR US6616696 OR US6623526 OR US6629997 OR US6632225 OR US6648896 OR US6695848 OR US6702821 OR US6709460 OR US6723102 OR US6743258 OR US6749638 OR US6755865 OR US6770077 OR US6770078 OR US6793676 OR US6827723 OR US6858032 OR US6859661 OR US6986791 OR US7048741 OR US7104996 OR US7105027 OR US7244274 OR US7422605 OR US7510557 OR US9672039 OR USD358647 OR USD462767 OR WO0217821 OR WO9514444 OR WO9725006 OR WO9832384 OR WO9913803 OR WO9940864) (293)

14) PN=(AU2002336798 OR EA007729 OR US6117138 OR US6468280 OR US6565570 OR US6695841 OR US6695848 OR US6699252 OR US6780190 OR US6796986 OR US7104996 OR US7114501 OR US7237556 OR US7344541 OR US7419491 OR US7477926 OR US7510557 OR US7547307 OR US7611516 OR US7615054 OR US7635390 OR US7708740 OR US7708741 OR US7749229 OR US7764985 OR US7794467 OR US7806896 OR US7806897 OR US7815645 OR US7828852 OR US7837736 OR US7857814 OR US7862570 OR US7892236 OR WO03037192 OR WO05027759 OR WO06022923 OR WO08049604 OR US4335715 OR US4349018 OR US4421112 OR US4565191 OR US4627425 OR US4750481 OR US4787383 OR US4892093 OR US5021056 OR US5053039 OR US5246444 OR US5304180 OR US5474559 OR US5486178 OR US5540695) (45)

15) PN=(DE10335410 OR EP2138107 OR US7686813 OR WO10131121 OR AU2004266089 OR EP1457160 OR US7615055 OR US7771473 OR WO05102178 OR WO07036699 OR WO08005627 OR AU2004201929 OR US7063706 OR US7104996 OR US7235080 OR US7442196 OR US7510557 OR US7520880 OR US7578821 OR US7615054 OR US7635390 OR US7641663 OR US7648510 OR US7708740 OR US7708741 OR US7744600 OR US7749229 OR US7806896 OR US7806897 OR US7828852 OR US7837691 OR US7837736 OR US7892236 OR EP0809969 OR US3200501 OR US4501266 OR US5669914) (31)

16) PN=(EP1260183 OR EP1263331 OR EP1263332 OR EP1550416 OR EP2123229 OR US5735904 OR US5902339 OR US6059831 OR US6554838 OR US6743258 OR US6770077 OR US6916324 OR US6916341 OR US6969393 OR US7060074 OR US7104996 OR US7141053 OR US7172596 OR US7172597 OR US7344540 OR US7371240 OR US7442196 OR US7510558 OR US7520901 OR US7578821 OR US7604641 OR US7615054 OR US7618422 OR US7618462 OR US7621920 OR US7635390 OR US7658741 OR US7678115 OR US7678151 OR US7699853 OR US7708740 OR US7708741 OR US7713305 OR US7749229 OR US7806897 OR US7815645 OR US7828852 OR US7828853 OR US7837691 OR US7837736 OR US7846162 OR US7857814 OR US7857817 OR US7892236 OR US7896883 OR US7896885 OR US7896922 OR US7901408 OR US7909825 OR US7914533 OR US7914545 OR US7922771 OR WO0166021 OR WO0166022 OR WO05076834 OR EP0104732 OR US4787383 OR US5116338 OR US5122144 OR US5304181 OR US5314482) (51)

Date of Search: 18 April 2011



### 27) 26 and (spoon or concave) (40)

31) (EC=(A61B17/60)) (152)

Computer Accessed Text Databases Searched

 Database: Google Scholar

 No. of Hits
 Text String
 Date
 Other Limiting Criteria

 3,310
 bone articulating surface scraper
 18 April 2011

 282
 bone articulating
 18 April 2011

#### Other Databases

No additional data bases were searched.

spoon

#### Publication search

A publication search was not performed in this examination.

surface scraper with

Date search was completed: 18 April 2011

MP/JMW